

**In the Specification:**

Please insert at Page 1, line 4, the following paragraph:

**RELATED PATENT APPLICATION**

This application is a National Phase Application of PCT/IL03/00292 having International Filing Date of 7 April 2003, which claims priority from Israel Patent Application No. 149016 filed 7 April 2002.

Please amend the paragraph beginning at line 24, page 48, as follows:

By implementing each of the four alternative specific configurations **10A**, **10B**, **10C**, and **10D**, illustrated in FIGS. 1A, 1B, 1C, and 1D, respectively, of the generalized preferred embodiment of the hyper-spectral imaging system **10** of the present invention, there is analyzing a plurality of synthesized hyper-spectral (cube) images, formed according to previous **Step (i)**, by applying one or more image analysis algorithms, to-via central programming and control/data/information signal processing unit (CPPU) **38**.

Please amend the paragraph beginning at line 15, page 49, as follows:

For implementing each of the four alternative specific configurations **10A**, **10B**, **10C**, and **10D**, illustrated in FIGS. 1A, 1B, 1C, and 1D, respectively, of the generalized preferred embodiment of the hyper-spectral imaging system **10** of the present invention, there is displaying, via display device **40**, either singly or in combination: the recorded interference images obtained in **Step (d)**, the plurality of improved quality recorded interference images obtained in **Step (e)**, the plurality of interferogram images obtained in **Step (f)**, the plurality of improved quality interferogram images obtained in **Step (g)**, the plurality of phase corrected improved quality interferogram images obtained in **Step (h)**, the plurality of synthesized hyper-spectral (cube) images obtained in **Step (i)**, and the results of the analysis of the synthesized plurality of hyper-spectral (cube) images obtained in **Step (j)**.